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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/960,626	09/21/2001	Michael Merchant	M93.12-0238	4288	
	7590 10/01/2004			EXAMINI	IER	
	Steven M. Koehler WESTMAN CHAMPLIN & KELLY Suite 1600 - International Center 900 South Second Avenue Minneapolis, MN 55402-3319			VOELTZ, EMANUEL T		
				ART UNIT	PAPER NUMBER	
				2121	σ	
				DATE MAILED: 10/01/2004	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

X

1		Application No.	Applicant(s)	5
		09/960,626	MERCHANT ET AL.	(
	Office Action Summary	Examiner	Art Unit	
		Emanuel T. Voeltz	2121	
Period fo	The MAILING DATE of this communication a	appears on the cover sheet with	the correspondence address	···
A SH THE - Exte after - If the - If NC - Failu Any	IORTENED STATUTORY PERIOD FOR REL MAILING DATE OF THIS COMMUNICATIOn ensions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a Depend for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by state of the period for reply will, by state of the period for reply will, by state of the period for reply will be office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. t 1.136(a). In no event, however, may a repi reply within the statutory minimum of thirty (iod will apply and will expire SIX (6) MONTH tute, cause the application to become ABAt	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communicati IDONED (35 U.S.C. § 133).	ion.
Status				
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on A: This action is FINAL. 2b) T Since this application is in condition for allocal closed in accordance with the practice under	his action is non-final. wance except for formal matter	· ·	is
Dianasit	ion of Claims		,	
5)⊠ 6)⊠ 7)⊟ 8)⊟ Applicat	Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) is/are without claim(s) 10-27 is/are allowed. Claim(s) 1-9 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and the specification is objected to by the Example.	drawn from consideration. d/or election requirement.		
10)	The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the continuous that or declaration is objected to by the	accepted or b) objected to by the drawing(s) be held in abeyance rection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121	' '
Priority	under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority documed. 2. Certified copies of the priority documed. 3. Copies of the certified copies of the priority documed. See the attached detailed Office action for a second content.	ents have been received. ents have been received in Apportionity documents have been received in Apport (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
Attachmer	nt(s) ce of References Cited (PTO-892)	4) 🔲 Interview Sur	nman/ /PTO .412\	
2) 🔲 Notio 3) 🔲 Infor	ce of References Cited (P10-692) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ er No(s)/Mail Date	Paper No(s)/l	Mail Date rmal Patent Application (PTO-152)	

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Art Unit: 2121



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Examiner's Detailed Office Action

The indicated allowability of claims 1-9 is withdrawn in view of a subsequent review under 35 U.S.C. 101, non-statutory subject matter.

A rejection to claims 1-9 is outlined below.

Claims 1-27 have been examined.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims, as presently claimed and best understood were considered in light of the new "Examination Guidelines for Computer-Related Inventions" and were found to be non-statutory. Discussion of the analysis of the claims under the guidelines follows

As per claims 1-9, the invention, as defined by the claims and as best understood merely manipulate an abstract idea or perform a purely mathematical algorithm without any limitation to a practical application in the technological arts. The invention is implemented on a computer; therefore, the invention is directed to the technological arts. However, the claimed invention merely recites a mathematical formula that could be envisioned using paper and pencil. The

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invention does not require physical acts to be performed outside the computer independent of and following the steps to be performed by a programmed computer, where those acts involve the manipulation of tangible physical objects and result in the object having a different physical attribute or structure. See Diamond v. Diehr, 450 US at 187, 209 USPQ at 8. The steps of "applying an input to a first model..." and "combining an output from the first model..." do not impose independent limitations on the scope of the claim beyond those required by the mathematical operation and abstract limitations because the "applying an input to a first model..." and "combining an output from the first model..." are not actual measured values of physical phenomena. In re Galnovatch, 595 F.2d at 41 n.7, 201 USPQ at 145 n.7; In re Sarker, 588 F.2d at 1331, 200 USPQ at 135. The steps of "applying" and "combining" have no direct effect on the physical world outside the computer. Thus, the claimed invention merely inputs

data into the system and performs a mathematical algorithm without any limitation to a practical

application as a result of the algorithm or outcome and is therefore deemed to be non-statutory

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Allowable Subject Matter

Claims 10-27 are allowable over the prior art of record.

Correspondence Information

Any inquiries concerning this communication or earlier communications from the examiner should be directed to Emanuel Todd Voeltz who may be reached via telephone at (703) 305-4563. The examiner can normally be reached Monday through Friday between the hours of 8:00 a.m. and 4:00 p.m. eastern standard time.

If you need to send an Official facsimile transmission, please send it to (703) 872-9306. If you would like to send a Non-Official (draft) facsimile transmission the fax is (703) 746-5104. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Anthony Knight, may be reached at (703) 308-3179.

SPECIAL NOTE (After October 14, 2004)

Any inquiries concerning this communication or earlier communications from the examiner should be directed to **Emanuel Todd Voeltz** who may be reached via telephone at (571) 272-3692. The examiner can normally be reached Monday through Friday between the hours of 8:00 a.m. and 4:00 p.m. eastern standard time.

If you need to send an Official facsimile transmission, please send it to (703) 872-9306. If you would like to send a Non-Official (draft) facsimile transmission the fax is (703) 746-5104. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Anthony Knight, may be reached at (571) 272-3687.

Any response to this office action should be mailed too: Director of Patents and Trademarks
Washington, D.C. 20231.

Moreover, hand-delivered responses should be delivered to the Receptionist, located on the fourth floor of Crystal Park 11, 2121 Crystal Drive Arlington, Virginia.

Emanuel Todd Voeltz
Primary Patent Examiner
Art Unit 2121
United States Department of Commerce
Patent & Trademark Office

PRIMARY FYAMINER